Measuring and Monitoring ISM System Improvements

ISM Champions Meeting

April 24-27, 2006

Michael Weis and Dae Chung

Background

- **48 DEAR 970.5223-1 ("ISM Clause") requires the contractor to describe how (ISM) system effectiveness will be measured.**

- **The former Safety Management Implementation Team (SMIT) attempted to develop a set of safety performance metrics that could be used to measure ISM system effectiveness.**

Background

- **At present, DOE sites use a multitude of different performance metrics to measure system effectiveness and support annual ISM declarations.**
  - **For the most part these performance metrics are not normalized and are not consistently applied at all DOE sites.**

- **DNFSB/TECH-36 (ISM: The Foundation for an Effective Safety Culture) recommends the development of "a process for evaluating the effectiveness of ISM".**

Summary

- **The Objective of ISM is to protect the public, worker and environment (48 DEAR 970.5223-1; P 450.4).**
- **DOE has not developed a comprehensive approach for measuring ISM System effectiveness.**

Summary

- **Without this approach it is difficult for the Department to determine:**
  - **If it is meeting the Objective of ISM (i.e., protection of the public, worker and environment),**
  - **The status of ISM (i.e., is safety performance improving, declining or static), and**
  - **If improvement actions (such as DNFSB 2004-1 Implementation Plan, ISM annual declarations, etc., etc.) are resulting in long term (safety) performance improvement.**

Workshop Objectives

1. Identify through a brainstorming session concepts leading to:
   A. Comprehensive measures of ISM effectiveness
   B. Common approach for normalizing data for use in trending and comparison
   C. Approach to customize measures for sites/projects
2. Define basic Plan of Action and associated milestones for ISM improvement goals.